

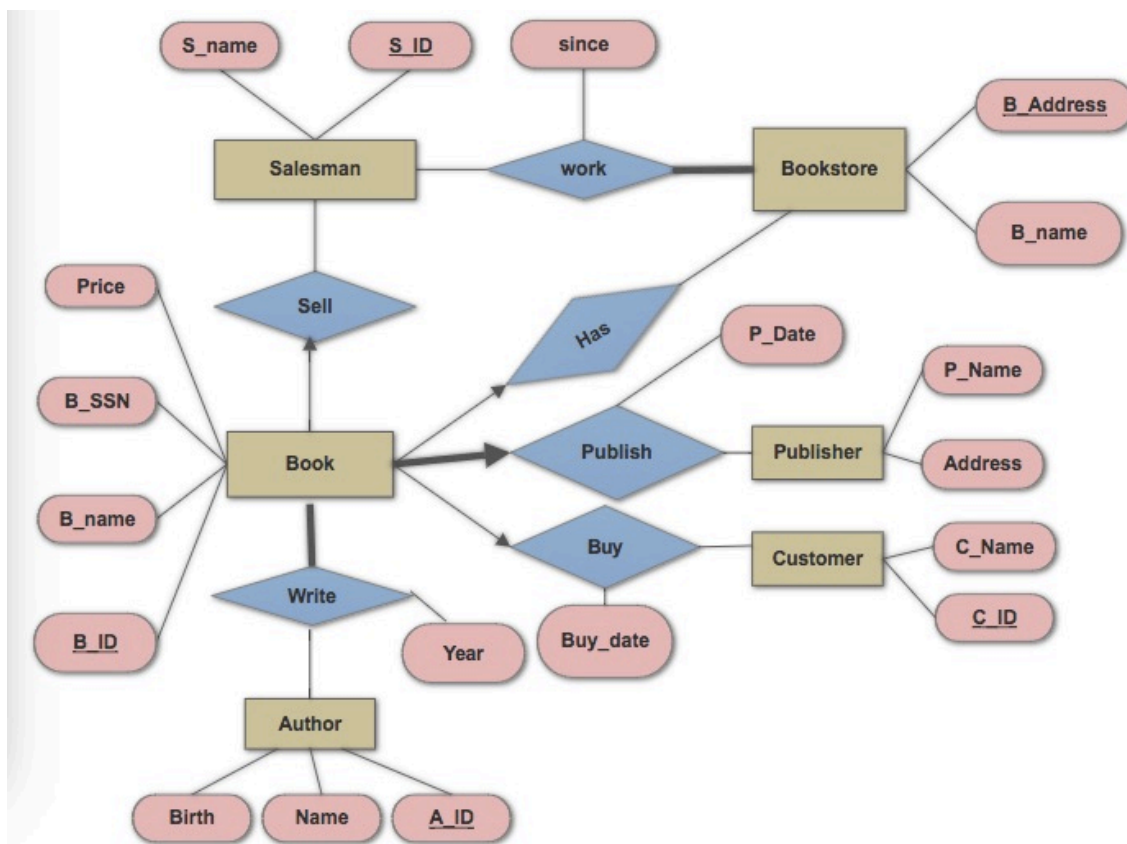
Description:

- Bookstores are identified by its address. For each bookstore, the name must be recorded.
- Salesmen are identified by their employee id and has their names.
- For each book, it is identified by its own id, and has price, ISBN, and names.
- Each author has id, date of birth and name.
- Each publisher has a name and address.
- Each customer has id and name.
- Every bookstore has at least one salesman; every book is published by a publisher and

has at least one author.

- Each bookstore has many books; and books are sold by salesman.
- Salesmen work for bookstore.
- Customer buys books and has a date for each book.
- Authors write books in certain year.

ER diagram:



Relation Schema:

Saleman(S_name: string, S_ID: integer)

Sell(S_name: string, B_ID: integer)
 Book(B_ID: integer, Price: real, B_SSN: integer, B_name: string) Write(B_ID: integer, A_ID: integer, Year: integer)
 Author(A_ID: integer, Birth: string, Name: string)
 Publish(B_ID: integer, Address: string)
 Publisher(Address: string, P_Name: string)
 Buy(B_ID: integer, C_ID: integer)
 Customer(C_ID: integer, C_Name: string)
 Has(B_ID: integer, B_Address: String)
 BookStore(B_Address: String, B_name: string)
 Work(S_name: string, B_Address: String, since: integer)

Logical Schema:

